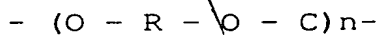


WHAT IS CLAIMED IS:

Sum
Q1 1. A waterstop sealing material comprising a foamed structure having closed cells or both closed cells and open cells, said foamed structure having a multi-layer pressure-sensitive adhesive layer provided on at least one side thereof, said multi-layer pressure-sensitive adhesive layer comprising as an outermost layer a layer made of a pressure-sensitive adhesive composition containing a polymer having a polycarbonate structure having a repeating unit represented by the following general formula:



wherein R represents a C₂₋₂₀ straight-chain or branched hydrocarbon group and n represents a positive integer.

2. The waterstop sealing material according to Claim 1, wherein said foamed structure has a multi-layer pressure-sensitive adhesive layer provided on at least one side thereof, said multi-layer pressure-sensitive adhesive layer comprising as an outermost layer a layer made of a pressure-sensitive adhesive composition containing a polymer having a polycarbonate structure, and a pressure-sensitive adhesive layer made of a pressure-sensitive adhesive composition different from said pressure-sensitive adhesive composition provided on the other side thereof.

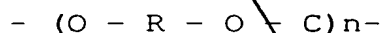
3. The waterstop sealing material according to Claim 2, wherein the pressure-sensitive adhesive layer provided on the side opposite to the side having the multi-layer pressure-

sensitive adhesive layer is composed of a rubber pressure-sensitive adhesive or an acrylic pressure-sensitive adhesive.

4. The waterstop sealing material according to Claim 1, wherein the polymer having a polycarbonate structure has a weight-average molecular weight of from 10,000 to 300,000.

5. The waterstop sealing material according to Claim 1, wherein the polymer having a polycarbonate structure is selected from the group consisting of a polyester synthesized from polycarbonate diol or a derivative thereof and dicarboxylic acid, a polyester synthesized from polycarbonatedicarboxylic acid and diol, and a polyurethane synthesized from polycarbonate diol and diisocyanate.

Sub 27 6. A waterstop sealing material comprising a foamed structure having closed cells or both closed cells and open cells, said foamed structure having a layer made of a pressure-sensitive adhesive composition containing a polymer having a polycarbonate structure having a repeating unit represented by the following general formula provided on at least one side thereof through a base material:



wherein R represents a C₂₋₂₀ straight-chain or branched hydrocarbon group and n represents a positive integer.

7. The waterstop sealing material according to Claim 6, wherein said foamed structure has a layer made of a pressure-sensitive adhesive composition containing a polymer having a polycarbonate structure provided on one side thereof

through a base material and a pressure-sensitive adhesive layer made of a pressure-sensitive adhesive composition different from said pressure-sensitive adhesive composition provided on the other side thereof.

8. The waterstop sealing material according to Claim 6, wherein the base material is selected from the group consisting of a porous base material, plastic film, and metal foil.

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A3 9. The waterstop sealing material according to Claim 6, wherein the pressure-sensitive adhesive layer provided on the side opposite to the side having the multi-layer pressure-sensitive adhesive layer is composed of a rubber pressure-sensitive adhesive or an acrylic pressure-sensitive adhesive.

10. The waterstop sealing material according to Claim 6, wherein the polymer having a polycarbonate structure has a weight-average molecular weight of from 10,000 to 300,000.

11. The waterstop sealing material according to Claim 6, wherein the polymer having a polycarbonate structure is selected from the group consisting of a polyester synthesized from polycarbonate diol or a derivative thereof and dicarboxylic acid, a polyester synthesized from polycarbonatedicarboxylic acid and diol, and a polyurethane synthesized from polycarbonate diol and diisocyanate.

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